




TECHNICAL DATA SHEET

StepliteX SolidGrip S5 non-metallic black/black

General information

Size range	
• EU	37 - 48
• UK	4 - 13
• US	5 - 15
The testresults in this technical datasheet are performed on size EU 42, UK 8, US 9	
Weight / pair	
• Safety level: Non-metallic toe cap & midsole	± 2 020 g
Colours	
	
black - black	

Upper

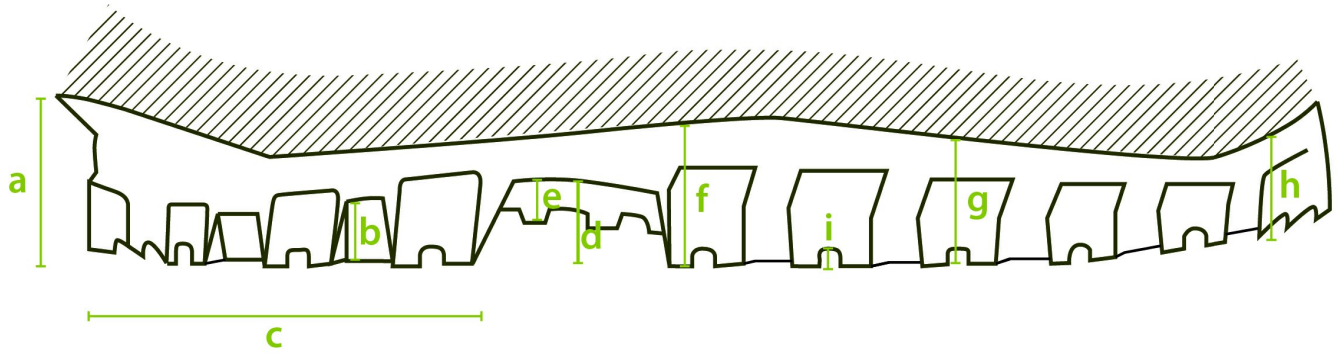
A. Dimensions	
• Height	outer measure: 36.5 - 39.5 cm
	cutting edge: 27.0 - 29.5 cm
• Foot length	outer measure: 31.0 cm
	inner measure: 28.0 cm
B. Thickness	
• Upper edge	2.6 - 3.1 mm
• Calf	2.8 - 3.4 mm
• Shinbone	2.8 - 3.6 mm
• Ankle	4.2 - 5.3 mm
• Heel	5.6 - 6.0 mm
C. Raw material	
	NEOTANE (proprietary polyurethane compound)
D. Density	
	0.65 - 0.70 g/ml

E. Tensile strength		
(incl. lining)	10 ± 2 N/mm ²	
F. Elongation		
(incl. lining)	600 +/- 100%	
G. Hardness		
	43 +/- 2 Sh A	
H. Tear strength		
(incl. lining) N/mm	10.0 ± 2.0 N/mm	
I. Aging		
(incl. lining)	7 days at 70 °C	14 days at 70 °C
• Tensile strength	11.6 Mpa	9.0 Mpa
• Elongation	580 ± 20%	600 ± 20%
• Tear strength	11.4 N/mm	9.0 N/mm
J. Chemical resistance		
	see detailed list	
K. Environmental temperature		
• Maximum	± 100 °C	
• Minimum	Cold insulation down to -30 °C	

Lining

A. Material	
	PU coating on polyester fabric
B. Seams	
	Welded and knitted seams

Outsole profile



A. Dimensions

• Heel		
• Thickness	(a)	41.1 mm
• Profile depth	(b)	14.6 mm
• Length	(c)	102.8 mm
• Width		85.8 mm
• Middle foot		
• Height	(d)	16.4 mm
• Ladder anti-slip grips	(e)	4.3 mm
• Outsole		
• Thickness	(f)	35.8 mm
	(g)	32.5 mm
	(h)	25.0 mm
• Profile depth	(i)	9.0 mm

B. Raw material

NEOTANE (proprietary polyurethane compound)

C. Density

0.65 - 0.70 g/ml

D. Mechanical characteristics

See upper (E)-(F)-(H)

E. Energy absorption of the seat region

35 J (requirement ≥ 20 J)

F. Antistatic

dry: 1×10^8 - 1×10^9 Ohm

wet: 1×10^7 - 1×10^9 Ohm

G. Abrasion resistance

50 mm³

H. Hardness





60 +/- 10 Sh A

I. Footwear slip resistance	
	SR
J. Chemical resistance	
	see detailed list

Safety

	Standard	Required	Type	Result
Toe cap & midsole				
Nail penetration resistance	EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024	> 1100 N	Non-metallic	1100 N
Impact resistance (200J)	EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024	> 14.0 mm	Non-metallic	17.0 mm
Impact resistance (125J)	CSA Z195-14	> 12.7 mm	Non-metallic	21.7 mm
Impact resistance at -18 °C (125J)	CSA Z195-14	> 12.7 mm	Non-metallic	24.2 mm
Compression resistance	EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024	> 14.0 mm	Non-metallic	20.0 mm
Compression resistance	ASTM F2413-18	> 12.7 mm	Non-metallic	23.2 mm
Width of toe cap	outer measure: 48.0 mm			
Height of toe cap	outer measure: 95.0 mm			
Toe cap	Composite material such as fiberglass			

Certificates

	EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 2501605-02-86
	EN ISO 20345:2011 AB0321/19220-01/E00-00
	CSA Z195-14 70048629
	ASTM F2413-18 70048629
	AS 2210.3:2019 SMKH21341

Accessories

Thermo-moulded footbed

Two layers

• Toplayer	woven textile
• Colour	black
• Thickness	0.70 mm
• Bottom	PU foam
• Colour	black
• Thickness	3.0 - 7.0 mm



Washable at 30°C